

QNY 1651
7

PATENT
ATTORNEY DOCKET NO. 10502/002001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lisa McKerracher et al.

Serial No.: 09/184,572

Filed : November 2, 1998

Title : RHO FAMILY ANTAGONISTS AND THEIR USE TO BLOCK
INHIBITION OF NEURITE OUTGROWTH

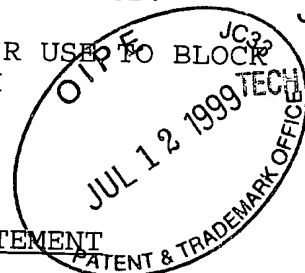
Art Unit: 1651

Examiner:

RECEIVED

JUL 19 1999

Assistant Commissioner for Patents
Washington, DC 20231



TECH CENTER 1600/2600

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO 1449, copies of which are enclosed.

This statement is being filed before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account 06-1050.

Respectfully submitted,

Date:

7/9/99

Richard P. Ferrara
Richard P. Ferrara
Reg. No. 30,632

Fish & Richardson P.C.
45 Rockefeller Plaza
New York, NY 10111

Telephone: 212/765-5070
Facsimile: 212/258-2291
54653.N11

Date of Deposit

July 9, 1999

I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Paula L. Romero

SUBSTITUTE FORM PTO-1449
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
10502/002001

SERIAL NO. 09/184532
RECEIVED

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

APPLICANT
Lisa McKerracher et al.

JUL 19 1999

(37 CFR 1.98(b))

FILING DATE
November 2, 1998

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ST	AA 4 9 9 7 8 3 4	03/05/1991	Muro et al.	514	227.8	
AB						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
AC					
AD					

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

ST	AE	Amano et al., "Formation of Actin Stress Fibers and Focal Adhesions Enhanced by Rho-Kinase," Science 275:1308-11, 1997.
ST	AF	Chardin et al., "Coding sequence of human rho cDNAs clone 6 and clone 9," Nucleic Acids Research 16:2717, 1988.
ST	AG	Diekmann et al., "In Vitro Binding Assay for Interactions of Rho and Rac with GTPase-Activating Proteins and Effectors," Methods in Enzymology 256:207-215, 1995.
ST	AH	Dillon et al., "Purification and Assay of Recombinant C3 Transferase," Methods in Enzymology 256:174-195, 1995.
ST	AI	Hall, "Small Gtp-Binding Proteins and the Regulation of the Actin Cytoskeleton," Annu. Rev. Cell Biol. 10:31-54, 1994.
ST	AJ	Hutchens et al., "Structurally Similar Drosophila α -Tubulins Are Functionally Distinct In Vivo," Molecular Biology of the Cell 8:481-500, 1997.
ST	AK	Ishizaki et al., "p160 ^{ROCK} , a Rho-associated coiled-coil forming protein kinase, works downstream of Rho and induces focal adhesions," FEBS Letters 404:118-124, 1997.
ST	AL	Jin et al., "Rac1 Mediates Collapsin-1-Induced Growth Cone Collapse," J. Neurosci. 17(16):6256-6263, 1997.
ST	AM	Katoh et al., "p160 RhoA-binding Kinase ROK α Induces Neurite Retraction," J. Biol. Chem. 273(5):2489-2492, 1998.
ST	AN	Laudanna et al., "Role of Rho in Chemoattractant-Activated Leukocyte Adhesion Through Integrins," Science 271:981-983, 1996.

EXAMINER

J. J. J. J.

DATE CONSIDERED

5-28-00

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 10502/002001		SERIAL NO. 09/184,572	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Lisa McKerracher et al.			
(37 CFR 1.98(b))				FILING DATE November 2, 1998		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	BB						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
ST	BC	Luo et al., "Differential effects of the Rac GTPase on Purkinje cell axons and dendritic trunks and spines," Nature 379:837-840, 1996.					
ST	BD	Luo et al., "Distinct morphogenetic functions of similar small GTPases: Drosophila Drac1 is involved in axonal outgrowth and myoblast fusion," Genes & Development 8:1787-1802, 1994.					
ST	BE	Matsui et al., "Rho-associated kinase, a novel serine/threonine kinase, as a putative target for the small GTP binding protein RHO," The EMBO Journal 15(9):2208-2216, 1996.					
ST	BF	Morii et al., "Preparation of Native and Recombinant Clostridium botulinum C3 ADP-Ribosyltransferase and Identification of Rho Proteins by ADP-Ribosylation," Methods in Enzymology 256:196-206, 1995.					
ST	BG	Nobes et al., "Rho, Rac, and Cdc42 GTPases Regulate the Assembly of Multimolecular Focal Complexes Associated with Actin Stress Fibers, Lamellipodia, and Filopodia," Cell 81:53-62, 1995.					
ST	BH	Somlyo, "Rhomantic interludes raise blood pressure," Nature 389:908-911, 1997.					
ST	BI	Song et al., "Conversion of Neuronal Growth Cone Responses from Repulsion to Attraction by Cyclic Nucleotides," Science 281:1515-1518, 1998.					
ST	BJ	Tigyi et al., "Lysophosphatidic Acid-Induced Neurite Retraction in PC12 Cells: Control by Phosphoinositide- Ca ²⁺ Signaling and Rho," Journal of Neurochemistry 66(2):537-548, 1996.					
ST	BK	Udagawa et al., "ADP-ribosylation of the G Protein Rho Inhibits Integrin Regulation of Tumor Cell Growth," J. Biol. Chem. 271:12542-12548, 1996.					
ST	BL	Uehata et al., "Calcium sensitization of smooth muscle mediated by a Rho-associated protein kinase in hypertension," Nature 389:990-994, 1997.					
EXAMINER <i>S. Sumner</i>				DATE CONSIDERED <i>6-1-00</i>			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Substitute Disclosure Form (PTO-1449)

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Lisa McKerracher et al.FILING DATE
November 2, 1998

GROUP

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA						
	CB						
	CC						
	CD						
	CE						
	CF						
	CG						
	CH						
	CI						
	CJ						
	CK						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CL							
	CM							
	CN							
	CO							
	CP							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	CQ	van Leeuwen et al., "The Guanine Nucleotide Exchange Factor Tiam1 Affects Neuronal Morphology; Opposing Roles for the Small GTPases Rac and Rho," J. Cell Biol. 139(3):797-807, 1997.
	CR	Yeramian et al., "Nucleotide sequence of human rho cDNA clone 12," Nucleic Acids Research 15(4):1869, 1987.
	CS	Zipkin et al., "Role of a New Rho Family Member in Cell Migration and Axon Guidance in C. elegans," Cell 90:883-894, 1997.

EXAMINER

DATE CONSIDERED

6-1-80

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.